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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/954,598	09/12/2001	Tim Goldstein	10007811-1	8279
7590 01/23/2006 HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400			EXAMINER	
			SELBY, GEVELL V	
			ART UNIT	PAPER NUMBER
			2615	

DATE MAILED: 01/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/954,598	GOLDSTEIN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Gevell Selby	2615			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on 11/08 This action is FINAL. Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) <u>1,2,5-9,13-17 and 20-23</u> is/are pendin 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1,2,5-9,13-17 and 20-23</u> is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	r (PTO-413) ate Patent Application (PTO-152)			

Application/Control Number: 09/954,598

DETAILED ACTION

Response to Arguments

- Applicant's arguments filed 11/08/05 have been fully considered but they are not 1. persuasive. The applicant submits the prior art does not disclose the following limitations of the claimed invention:
 - 1) "means for merging at least two images of a scene to form a merged image. the at least two images including different views of the scene;" and

"means for storing an uncropped portion of the merged image such that; responsive to the at least two images being captured, the means for storing stores the at least two images and provides the at least two images for merging;

wherein, subsequent to cropping of the merged image, the uncropped portion is stored by the means for storing and a corresponding cropped portion is deleted therefrom" as claimed in claim 1;

- 2) "storing, in the digital camera, an uncropped portion of the merged image and deleting a cropped portion of the merged image such that information corresponding to cropped portions of the captured images are no longer stored in the digital camera" as claimed in claim 9;
- 3) "logic that stores an uncropped portion of the merged image in the digital camera; and

logic that deletes a cropped portion of the merged image prior to storing the uncropped portion of the merged image such that information corresponding to cropped Application/Control Number: 09/954,598 Page 3

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portions of the captured images are no longer stored in the digital camera" as claimed in claim 17. The Examiner respectfully disagrees.

Examiner's Reply:

2. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

In regard to claims 1, 9, and 17, the Kinjo reference discloses a digital camera, method and computer readable medium comprising a means for merging (camera 14, memory 16, and image composition section 18) at least two images of a scene to form a merged image (see Para. 50 and figure 3B: the image composition section creates a composite image of the image already photographed image data in memory and the image presently being photographed and displays it on the monitor 12). The Kinjo reference discloses a means for storing (see figure 1, element 16) at least at least two images and provides at least two images for merging, responsive to the at least two images being captured (see Para. 15 and 59: A picture of subject A and a picture of subject B is captured and stored in the memory 16), but the reference does not teach that this memory is a mean's for storing an uncropped portion of the merged image. The Kinjo reference also does not disclose a means for cropping the merged image or a means for storing the uncropped portion of the merged image as the examiner stated in the previous office action. The Ishihama reference was brought in to teach a means for cropping a displayed image (see column 4, lines 8-35: When an image is displayed on the display

and the camera is set to zoom-in on or crop the image, an opaque frame line is displayed on the display. The portion inside the frame is the uncropped portion of the image to be magnified and saved into memory. The portion outside the frame is the cropped portion and is excluded from being saved). By modifying the Kinjo reference in view of the Ishihama reference to have the means of cropping and the means for storing the cropped image, the combination discloses the claimed invention.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2, 5, 7-10, 13, 15-17, 20, 22, and 23 rejected under 35 U.S.C. 103(a) as being unpatentable over Kinjo, US 2002/0001036, in view of Ishihama et al., US 5,557,328.

In regard to claim 1, Kinjo, US 2002/0001036, discloses a digital camera (see figure 1), comprising:

means for merging at least two image of a scene to form a merged image (see figure 1, elements 14, 16, and 18), the at least two images including different views of the scene (see Para. 50, 91-93 and figure 3b: the two image are displayed together as a merged image);

means for storing (see figure 1, element 16) at least at least two images and provides at least two images for merging, responsive to the at least two images being captured (see Para. 15 and 59: A picture of subject A and a picture of subject B is captured and stored in the memory 16).

The Kinjo reference does not disclose a means for cropping the merged image and a means for storing an uncropped portion of the merged image wherein, subsequent to cropping of the merged image, the uncropped portion is stored by the means for storing and a corresponding cropped portion is deleted therefrom.

Ishihama et al., US 5,557,328, discloses a digital camera comprising:

means for cropping a displayed image (see column 4, lines 8-35: When an image is displayed on the display and the camera is set to zoom-in on or crop the image, an opaque frame line is displayed on the display); and

means for storing an uncropped portion of the merged image wherein, subsequent to cropping of the merged image, the uncropped portion is stored by the means for storing and a corresponding cropped portion is deleted therefrom (see figure 3 and column 4, lines 32-35: The portion inside the frame is the uncropped portion of the image to be magnified and saved into memory. The portion outside the frame is the cropped portion and is excluded from being saved).

It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Kinjo, US 2002/0001036, in view of Ishihama et al., US 5,557,328, to have means for cropping the displayed image and a means for storing an uncropped portion of the displayed image wherein, subsequent to

cropping of the merged image, the uncropped portion is stored by the means for storing and a corresponding cropped portion is deleted therefrom, in order for the user to easily control the selection of a portion of the image to view and save and to save memory space.

In regard to claim 9, Kinjo, US 2002/0001036, discloses a method of controlling the operation of the camera, comprising:

storing, in the digital camera, at least two captured images representing different image views of a scene (see Para. 15 and 59: A picture of subject A and a picture of subject B is captured and stored in the memory 16);

merging, in the digital camera, at least two captured images to form a merged image (see Para. 50, 91-93 and figure 3b: the two image are displayed together as a merged image);

The Kinjo reference does not disclose storing, in the digital camera, an uncropped portion of the merged image; and deleting a cropped portion of the merged image such that information corresponding to cropped portions of the captured images are no longer stored in the digital camera.

Ishihama et al., US 5,557,328, discloses a digital camera as described above in regard to claim 1.

It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Kinjo, US 2002/0001036, in view of Ishihama et al., US 5,557,328, to store, in the digital camera, an uncropped portion of the merged image and deleting a cropped portion of the merged image such that information

corresponding to cropped portions of the captured images are no longer stored in the digital camera, in order for the user to easily control the selection of a desired portion of the image to view and save and to save memory space.

In regard to claim 17, Kinjo, US 2002/0001036, discloses a computer readable medium for controlling the operation of the camera (It is inherent the CPU (24) stores a control program in a storage medium to use to operate the camera (see Para. 51), comprising:

logic that merging at least two captured images to form a merged image corresponding to different image views of a scene to form a merged image in the digital camera (see Para. 91-93 and figure 3b: the two image are displayed together as a merged image);

The Kinjo reference does not disclose logic that stores an uncropped portion of the merged image in the digital camera and logic that deletes a cropped portion of the merged image such that information corresponding to cropped portions of the captured images are no longer stored in the digital camera.

Ishihama et al., US 5,557,328, discloses a digital camera as described above in regard to claim 1.

It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Kinjo, US 2002/0001036, in view of Ishihama et al., US 5,557,328, to have logic that stores an uncropped portion of the merged image in the digital camera and logic that deletes a cropped portion of the merged image such that images are no longer stored in the digital camera, in order for the user to

easily control the selection of a desired portion of the image to view and save and to save memory space.

In regard to claims 2 and 10, Kinjo, US 2002/0001036, in view of Ishihama et al., US 5,557,328, discloses the digital camera and method of controlling the operation of the camera recited in claims 1 and 9, respectively. The Ishihama reference discloses further comprising means for deleting a cropped portion of merged image (see column 4, lines 30-32: The uncropped portion is deleted when the image is cropped or zoomed in).

In regard to claims 5, 13, and 20, Kinjo, US 2002/0001036, in view of Ishihama et al., US 5,557,328, discloses the digital camera, method of controlling the operation of the camera and a computer readable medium for controlling the operation of a digital camera recited in claims 1, 9, and 17 respectively. The Kinjo reference discloses wherein the at least two images of the scene are captured sequentially in time (see Para. 92).

In regard to claims 7, 15, and 22, Kinjo, US 2002/0001036, in view of Ishihama et al., US 5,557,328, discloses the digital camera, method of controlling the operation of the camera, and a computer readable medium (It is inherent the microcomputer (14) stores a control program in a storage medium to use to operate the camera for controlling the operation of a digital camera recited in claims 1, 9, and 17 respectively. The Kinjo reference discloses wherein said at least two images have an overlapping image field (see figure 8 and Para. 92).

In regard to claims 8, 16, and 23, Kinjo, US 2002/0001036, in view of Ishihama et al., US 5,557,328, discloses the digital camera, method of controlling the operation of the camera, a computer readable medium for controlling the operation of a digital camera

recited in claims 1, 9, 17 respectively. The Kinjo reference discloses wherein said at least two images have substantially the same image field (see figure 8 and Para. 92).

5. Claims 6, 13, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinjo, US 2002/0001036, in view of Ishihama et al., US 5,557,328, as applied to claims 1, 9, and 17 above and further, in view of Weldy et al., EP 0858208.

In regard to claim 6, 13, and 21, Kinjo, US 2002/0001036, in view of Ishihama et al., US 5,557,328, discloses the digital camera recited in claims 1, 9, and 17. The Kinjo and Ishihama references do not disclose at least two images of the scene are captured simultaneously.

The Weldy reference discloses uses two or more image sensors to capture multiple image of a scene simultaneously (see page 5, lines 14-20).

It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Kinjo, US 2002/0001036, in view of Ishihama et al., US 5,557,328, and further in view of Weldy et al., EP 0858208, to have to have two image sensors that capture images of a scene simultaneously in order to create the composite images faster.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gevell Selby whose telephone number is 571-272-7369. The examiner can normally be reached on 8:00 A.M. - 5:30 PM (every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on 571-272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gvs

DAVID OMETZ SUPERVISORY PATENT EXAMINER